ReDrone™ Portable CUAS Solution

Man-Portable Detection & Jamming System

Elbit Systems - ISTAR & EW presents the Portable Drone Detection & Jamming (PDS/PDJS) System – a portable dual solution designed for individual operators and tactical teams. As the newest addition to the ReDrone™ Counter-UAS solution, the combined system quickly detects and neutralizes advanced drone threats, creating up to a kilometer-wide safety zone. Lightweight and easily transported in a ruggedized case, or installed on an ATV/AFV – the system is ideal for low-signature convoy protection, self-protection and maneuvering forces.

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PDS/PDJS is a portable system used for detection, identification and neutralization of drones.

The system incorporates the entire sensor unit needed to achieve mission purposes, including GPS as well as the user interface buttons and display:

Drone Detection	Automatically scans pre-configured frequency ranges, detects target signals and classifies them by known and unknown drone/Remote Control (RC) models
Drone List Display	Real-time display of detected and classified drone/RC data
Real-time Alerts	Visual, vibration and audible
Drone Jamming	Supports manual and auto-jam modes triggered by the PDS
Tactical Terminal	Tactical ruggedized fighter platform for full PDS/PDJS operations
Mission Computer	Post-mission analysis debriefing including GPS route and threat database updates

The Portable Drone Detection System (PDS)

Technical Specifications

Feature	Specification
Receiving frequency coverage	400 MHz to 6000 MHz
Antenna azimuth coverage	360° for all supported frequency bands
Detection range	Up to 1000m (with LoS and SIR ≥ 10dB, drone/RC EIRP=20dBm)
Maximum weight	3.1kg (with 2 batteries)
Operational duration	Up to 4 hrs, Continuous with hot swappable batteries
Maximum dimensions	(H x D x W) 31cm x 6.5cm x 10cm

The Portable Drone Detection and Jamming Unified System (PDJS)

Technical Specifications

Feature	Specification
Jamming frequency coverage	400 MHz to 6000 MHz band-selectable
Antenna azimuth coverage	360° for all supported frequency bands
Detection range	Up to 1000m (at a 2:1 Ratio with omni antenna)
Transmission Power (W)	Up to 10W for low band 400MHz,900MHz, GNSS Up to 10W for 2.4GHz Up to 10W for 5.8GHz
Maximum weight	Up to 10kg
Operational duration	Up to 7.5 hrs (with 10% continuous jamming)
Maximum dimensions	(H x D x W) 33cm x 10cm x 28cm

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